OIPE JC99
FEB 27 2004
PATENT & TRADEMARK OFFICE

TRANSMITTAL FORM

(To be used for all correspondence after initial filing)

Application Number	10/684,232
Filing Date	October 10, 2003
First Named Inventor	Annie N. Murphy
Art Unit	1634
Examiner Name	
Attorney Docket No.	660088.433C2

ENCLOSURES (*check all that apply*)

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Response
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement; Forms PTO-1449 (10 sheets)
- ☐ Cited References
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts under 37 C.F.R. 1.52 or 1.53
- ☐ Response to Missing Parts/Incomplete Application
- ☐ Drawing(s)
- ☐ Request for Corrected Filing Receipt
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation, Change of Correspondence Address
- ☐ Declaration
- ☐ Statement under 37 CFR 3.73(b)
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD(s), Number of CD(s) _____
- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to Group *(Appeal Notice, Brief, Reply Brief)*
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Return Receipt Postcard
- ☐ Additional Enclosure(s) *(please identify below)*:

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Individual Name	Stephen J. Rosenman, Ph.D.	Customer Number 00500
Signature	Stephen J. Rosen—	
Date	February 23, 2004	

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Jason Añover	
Signature		Date: February 23, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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PATENT

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February 23, 2004
Date

Jason Añover

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	:	Anne N. Murphy et al.
Application No.	:	10/684,232
Filed	:	October 10, 2003
For	:	COMPOSITIONS AND METHODS FOR DETERMINING INTERACTIONS OF MITOCHONDRIAL COMPONENTS, AND FOR IDENTIFYING AGENTS THAT ALTER SUCH INTERACTIONS
Art Unit	:	1634
Docket No.	:	660088.433C2
Date	:	February 23, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached Form PTO-1449. This application is a continuation and relies, under 35 U.S.C. § 120, on the earlier filing date of prior Application No. 09/709,785 filed November 3, 2000, which is a Continuation-in-part of prior Application No. 09/434,354, filed November 3, 1999, now U.S. Patent 6,562,563. The references listed on the attached Form PTO-1449 were submitted to and/or cited by the Patent and Trademark Office in this prior application and, therefore, are not required to be

provided in this application. If the Examiner wishes, copies will be provided upon request. As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC

Stephen J. Rosenman, Ph.D.
Registration No. 43,058

Enclosures:

Postcard
Forms PTO-1449 (10 sheets)

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FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	APPLICATION NO.
		660088.433C2	10/684,232
	INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	APPLICANTS: Anne N. Murphy et al.	
		FILING DATE: October 10, 2003	GROUP ART UNIT: 1634

OIPE JC99 FEB 27 2004 PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,447,852	09/05/95	Friedman et al.	435	69.7	
	AB	5,523,227	06/04/96	Bram et al.	435	240.2	
	AC	5,773,225	06/30/98	Luban et al.	435	7.8	
	AD	5,780,235	07/14/98	Bandman et al.	435	6	
	AE	5,968,802	10/19/99	Wang et al.	435	233	
	AF	6,140,067	10/31/00	Anderson et al.	435	26	
	AG	6,150,415	11/21/00	Hammock et al.	514	588	
	AH	6,183,948	02/06/01	Marban et al.	435	4	
	AI	6,211,440	04/03/01	Briggs et al.	800	301	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	AJ	WO 98/06737	02/19/98	WIPO		
	AK	WO 98/19714	05/14/98	WIPO		
	AL	WO 99/07845	02/18/99	WIPO		
	AM	WO 00/26370	05/11/00	WIPO		

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	AN		Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," *Science 252*:1651-1656, 1991.
	AO		Allgood and Eastman, "Chimeric Receptors as Gene Switches," *Current Opinion in Biotechnology 8*:474-479, 1997.
	AP		Aquila et al., "Complete Amino Acid Sequence of the ADP/ATP Carrier from Beef Heart Mitochondria," *Hoppe-Seyler's Z. Physiol. Chem. 363*:345-349, 1982.
	AQ		Battini et al., "Molecular Cloning of a cDNA for a Human ADP/ATP Carrier Which is Growth-Regulated," *The J. of Biological Chemistry 262*(9):4355-4359, 1987.
	AR		Bergsma et al., "The Cyclophilin Multigene Family of Peptidyl-Prolyl Isomerases," *The J. of Biological Chemistry 266*(34):23204-23214, 1991.

EXAMINER	DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	APPLICATION NO.
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		October 10, 2003	1634

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	BB					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	BC		Bernardi et al., "Recent Progress on Regulation of the Mitochondrial Permeability Transition Pore; a Cyclosporin-Sensitive Pore in the Inner Mitochondrial Membrane," *J. of Bioenergetics and Biomembranes 26*(5):509-517, 1994.
	BD		Brunelli and Pall, "A Series of Yeast Shuttle Vectors for Expression of cDNAs and Other DNA Sequences," *Yeast 9*:1299-1309, 1993.
	BE		Cacalano et al., "Evidence for a Functional Receptor for Cyclosporin A on the Surface of Lymphocytes," *Proc. Natl. Acad. Sci. USA 89*:4353-4357, 1992.
	BF		Carra and Schleif, "Variation of Half-Site Organization and DNA Looping by AraC Protein," *The EMBO J. 12*(1):35-44, 1993.
	BG		Costantini et al., "On the Effects of Paraquat on Isolated Mitochondria. Evidence that Paraquat Causes Opening of the Cyclosporin A-Sensitive Permeability Transition Pore Synergistically with Nitric Oxide," *Toxicology 99*:77-88, 1995.
	BH		Cozens et al., "DNA Sequences of Two Expressed Nuclear Genes for Human Mitochondrial ADP/ATP Translocase," *J. Mol. Biol. 206*:261-280, 1989.
	BI		Crompton et al., "Cyclophilin-D Binds Strongly to Complexes of the Voltage-Dependent Anion Channel and the Adenine Nucleotide Translocase to form the Permeability Transition Pose," *Eur. J. Biochem. 258*:729-735, 1998.
	BJ		Cruz-Orive and Weibel, "Recent Stereological Methods for Cell Biology: a Brief Survey," *Am. J. Physiol. 258*:L148-L156, 1990.
	BK		Ernster and Schatz, "Mitochondria: A Historical Review," *J. Cell. Biol. 91*(3):227s-255s, 1981.
	BL		Fiore et al., "The Mitochondrial ADP/ATP Carrier: Structural, Physiological and Pathological Aspects," *Biochimie 80*:137-150, 1998.
	BM		Fischer and Schmid, "The Mechanism of Protein Folding. Implications of in Vitro Refolding Models for de Novo Protein Folding and Translocation in the Cell," *Biochemistry 29*(9):2205-2212, 1990.

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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Anne N. Murphy et al.	
		FILING DATE October 10, 2003	GROUP ART UNIT 1634

U.S. PATENT DOCUMENTS

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	CA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	CB					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	CC		Franke and Luban, "Cyclophilin and GAG in HIV-1 Replication and Pathogenesis," *Advances in Experimental Medicine and Biology 374*:217-228, 1995.
	CD		Galat, "Peptidylproline *Cis-Trans*-Isomerases: Immunophilins," *Eur. J. Biochem. 216*:689-707, 1993.
	CE		GenBank Acc. No. AA490268, June 25, 1997.
	CF		GenBank Acc. No. AA874983, March 20, 1998.
	CG		GenBank Acc. No. AA955975, May 7, 1998.
	CH		Genbank Acc. No. AAA58434, December 31, 1994.
	CI		GenBank Acc. No. AAB08453, September 18, 1996.
	CJ		GenBank Acc. No. AF020338, September 24, 1997.
	CK		GenBank Acc. No. AF039571, February 2, 1999.
	CL		GenBank Acc. No. AF178950, October 20, 1999.
	CM		GenBank Acc. No. AF178951, October 20, 1999.
	CN		GenBank Acc. No. AF178952, October 20, 1999.
	CO		GenBank Acc. No. AI668824, May 14, 1999.
	CP		GenBank Acc. No. AI875905, July 21, 1999.
	CQ		GenBank Acc. No. AI892042, July 27, 1999.
	CR		GenBank Acc. No. L06132, January 14, 1995.

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	DA						

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	DB					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	DC		GenBank Acc. No. L06328, January 14, 1995.
	DD		GenBank Acc. No. L21950, May 20, 1994.
	DE		GenBank Acc. No. L21951, May 20, 1994.
	DF		GenBank Acc. No. M34907, April 27, 1993.
	DG		GenBank Acc. No. M36035, December 20, 1993.
	DH		GenBank Acc. No. M80254, December 31, 1994.
	DI		GenBank Acc. No. N86710, April 1, 1996.
	DJ		GenBank Acc. No. NM_003374, November 1, 2000.
	DK		GenBank Acc. No. NM_003375, November 1, 2000.
	DL		GenBank Acc. No. NM_004758, November 1, 2000.
	DM		GenBank Acc. No. NM_005038, November 1, 2000.
	DN		GenBank Acc. No. NM_005662, November 1, 2000.
	DO		GenBank Acc. No. S75494, April 5, 1999.
	DP		GenBank Acc. No. S75651, July 27, 1995.
	DQ		GenBank Acc. No. U04335, November 8, 1994.
	DR		GenBank Acc. No. U17900, January 12, 1999.
	DS		GenBank Acc. No. U50388, October 31, 1996.

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	EA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	EB					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	EC		GenBank Acc. No. U50389, October 31, 1996.
	ED		GenBank Acc. No. U68544, September 18, 1996.
	EE		GenBank Acc. No. U70314, February 11, 1998.
	EF		GenBank Acc. No. U89987, October 4, 2000.
	EG		GenBank Acc. No. U89988, October 4, 2000.
	EH		GenBank Acc. No. U89989, October 4, 2000.
	EI		GenBank Acc. No. X62123, June 8, 1994.
	EJ		GenBank Acc. No. Z82214, December 12, 1999.
	EK		Giraud et al., "Expression of Human *ANT2* Gene in Highly Proliferative Cells: GRBOX, a New Transcriptional Element, Is Involved in the Regulation of Glycolytic ATP Import into Mitochondria," *J. Mol. Biol. 281*:409-418, 1998.
	EL		Green and Reed, "Mitochondria and Apoptosis," *Science 281*:1309-1312, August 28, 1998.
	EM		Griffin et al., "Specific Covalent Labeling of Recombinant Protein Molecules Inside Live Cells," *Science 281*:269-272, 1998.
	EN		Guzman et al., "Tight Regulation, Modulation, and High-Level Expression by Vectors Containing the Arabinose P_{BAD} Promotor," *J. of Bacteriology 177*(14):4121-4130, 1995.
	EO		Haendler et al., "Complementary DNA for human T-cell cyclophilin," *The EMBO J. 6*(4):947-950, 1987.
	EP		Haldimann et al., "Use of New Methods for Construction of Tightly Regulated Arabinose and Rhamnose Promoter Fusions in Studies of the *Escherichia coli* Phosphate Regulon," *J. of Bacteriology 180*(5):1277-1286, 1998.

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	FB					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	FC		Halestrap et al., "Cyclosporin A Binding to Mitochondrial Cyclophilin Inhibits the Permeability Transition Pore and Protects Hearts from Ischaemia/Reperfusion Injury," *Molecular and Cellular Biochemistry 174*:167-172, 1997.
	FD		Halestrap et al., "Elucidating the Molecular Mechanism of the Permeability Transition Pore and its Role in Reperfusion Injury of the Heart," *Biochimica et. Biophysica Acta 1366*:79-94, 1998.
	FE		Halestrap et al., "Mitochondrial Calcium Handling and Oxidative Stress," *Biochemical Society Transactions 21*(2):353-358, 1993.
	FF		Holloway and Bram, "Co-localization of Calcium-Modulating Cyclophilin Ligand with Intracellular Calcium Pools," *The J. of Biological Chemistry 273*(26):16346-16350, 1998.
	FG		Hunter and Haworth, "The Ca^{2+}-Induced Membrane Transition in Mitochondria: The Protective Mechanisms," *Archives of Biochemistry and Biophysics 195*(2):453-459, 1979.
	FH		Jäschke et al., "Human T Cell Cyclophilin18 Binds to Thiol-Specific Antioxidant Protein Aop1 and Stimulates its Activity," *J. Mol. Biol. 277*:763-769, 1998.
	FI		Jürgensmeier et al., "Bax Directly Induces Release of Cytochrome *c* From Isolated Mitochondria," *Proc. Natl. Acad. Sci. 95*:4997-5002, 1998.
	FJ		Kamo et al., "Membrane Potential of Mitochondria Measured with an Electrode Sensitive to Tetraphenyl Phosphonium and Relationship Between Proton Electrochemical Potential and Phosphorylation Potential in Steady State," *J. Membrane Biol. 49*:105-121, 1979.
	FK		Kendall and Badminton, "*Aequorea Victoria* Bioluminescence Moves into an Exciting New Era," *Biotechnology 16*:216-224, 1998.
	FL		Klingenberg et al., "Isolation of the ADP, ATP Carrier as the Carboxyatractylate Protein Complex from Mitochondria," *Biochimica et Biophysica Acta 503*:193-210, 1978.
	FM		Korfron et al., "Determination of Kinetic Constants for Peptidyl Prolyl Cis-Trans Isomerases by an Improved Spectrophotometric Assay," *Biochemistry 30*:6127-6134, 1991.
	FN		Kroemer et al., "The Mitochondrial Death/Life Regulator in Apoptosis and Necrosis," *Annu. Rev. Physiol. 60*:619-642, 1998.

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	GA						

FOREIGN PATENT DOCUMENTS

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	GB					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	GC		Ku et al., "The Human Fibroblast Adenine Nucleotide Translocator Gene: Molecular Cloning and Sequence," *The J. of Biological Chemistry 265*(27):16060-16063, 1990.
	GD		Li et al., "A Human Muscle Adenine Nucleotide Translocator Gene Has Four Exons, is Located on Chromosome 4, and is Differentially Expressed," *The J. of Biological Chemistry 264*(24):13998-14004, 1989.
	GE		Lutz and Bujard, "Independent and Tight Regulation of Transcriptional Units in *Escherichia coli* Via the LacR/O, the TetR/O and AraC/I_1-I_2 Regulatory Elements," *Nucleic Acids Research 25*(6):1203-1210, 1997.
	GF		Mahajan et al., "Bcl-2 and Bax Interactions in Mitochondria Probed with Green Fluorescent Protein and Fluorescence Resonance Energy Transfer," *Nature Biotechnology 16*:547-552, 1998.
	GG		Makrides, "Strategies for Achieving High-Level Expression of Genes in *Escherichia coli*," *Microbiological Reviews 60*(3):512-538, 1996.
	GH		Mancini et al., "Flow Cytometric Measurement of Mitochondrial Mass and Function: A Novel Method for Assessing Chemoresistance," *Ann. Surg. Oncol. 5*(3):287-295, 1998.
	GI		Mancini et al., "Mitochondrial Proliferation and Paradoxical Membrane Depolarization During Terminal Differentiation and Apoptosis in a Human Colon Carcinoma Cell Line," *The J. of Cell Biology 138*(2):449-469, 1997.
	GJ		Marzo et al., "The Permeability Transition Pore Complex: A Target for Apoptosis Regulation by Caspases and Bcl-2-Related Proteins," *J. Exp. Med. 187*(8):1261-1271, 1998.
	GK		Mayer, "A New Set of Useful Cloning and Expression Vectors Derived From pBlueScript," *Gene 163*:41-46, 1995.
	GL		Murphy and Bredesen, *Mitochondria & Free Radicals in Neurodegenerative Diseases*, Wiley-Liss, New York, Chapter 8, "Mitochondria, Reactive Oxygen Species, and Apoptosis," pp. 159-186.

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	HB					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	HC		Neckelmann et al., "cDNA Sequence of a Human Skeletal Muscle ADP/ATP Translocator: Lack of a Leader Peptide, Divergence from a Fibroblast Translocator cDNA, and Coevolution with Mitochondrial DNA Genes," *Proc. Natl. Acad. Sci. USA 84*:7580-7584, 1987.
	HD		Nicolli et al., "Interactions of Cyclophilin with the Mitochondrial Inner Membrane and Regulations of the Permeability Transition Pore, a Cyclosporin A-Sensitive Channel," *The Journal of Biological Chemistry 271*(4):2185-2192, 1996.
	HE		Petit et al., "Disruption of the Outer Mitochondrial Membrane as a Result of Large Amplitude Swelling: The Impact of Irreversible Permeability Transition," *FEBS Letters 426*:111-116, 1998.
	HF		Porter and Brand, "Causes of Differences in Respiration Rate of Hepatocytes from Mammals of Different Body Mass," *American J. of Physiology: Regulatory, Integrative and Comparative Physiology 38*(5):R1213-R1224, 1995.
	HG		Price et al., "Human Cyclophilin B: A Second Cyclophilin Gene Encodes a Peptidyl-Prolyl Isomerase with a Signal Sequence," *Proc. Natl. Acad. Sci. USA 88*:1903-1907,1991.
	HH		Ratajczak et al., "The Cyclophilin Component of the Unactivated Estrogen Receptor Contains a Tetratricopeptide Repeat Domain and Shares Identity with p59 (FKBP59)," *The J. of Biological Chemistry 268*(18):13187-13192, 1993.
	HI		Saito et al., "Expression of a Gene for Cyclophilin which Contains an Amino-Terminal Endoplasmic Reticulum-Targeting Signal," *Plant Cell Physiol. 40*(1):77-87, 1999.
	HJ		Schwerzmann et al., "Molecular Architecture of the Inner Membrane of Mitochondria from Rat Liver: A Combined Biochemical and Stereological Study," *The J. of Cell Biology 102*(1):97-103, 1986.
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FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	APPLICATION NO.
		660088.433C2	10/684,232
		APPLICANTS	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Anne N. Murphy et al.	
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U.S. PATENT DOCUMENTS

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	IA						

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	IB					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	IC		Smagula and Douglas, "ADP-ATP Carrier of *Saccharomyces Cerevisiae* Contains a Mitochondrial Import Signal Between Amino Acids 72 and 111," *Journal of Cellular Biochemistry 36*:323-327, 1988.
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	JB						
	JC						

FOREIGN PATENT DOCUMENTS

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	JD					
	JE					
	JF					

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	JG		Walsh et al., "Cyclosporin A, the Cyclophilin Class of Peptidylprolyl Isomerases, and Blockade of T Cell Signal Transduction," *The J. of Biological Chemistry 267*(19), 13115-13118, 1992.
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